

SUPPLY CHAIN AND OPERATIONS MANAGEMENT (SCM)

SCM:330 Principles of Supply Chain and Operations Management (3 Credits)

Prerequisite: Completion of 32 credit hours. An overview of the terminology, fundamental concepts and scope of responsibility encountered in the fields of supply chain and operations management. (Formerly 6500:330)

SCM:333 Supply Chain and Operations Analysis (3 Credits)

Prerequisites: MGMT 304 and SCM 330. Application of quantitative models in the analysis and design of systems in the supply chain and in manufacturing and service operations environments. (Formerly 6500:333)

SCM:334 Service Operations Management (3 Credits)

Prerequisite: SCM 330. An overview of the fundamental terminology, principles, concepts and problem solving methods encountered in the contemporary field of service operations management. (Formerly 6500:334)

SCM:390 Supply Chain Modeling and Decision Making (3 Credits)

Prerequisites: [ACCT 250 or admission to the College of Engineering with 48 credit hours completed], MGMT 304, and SCM 330. Spreadsheet based, example-driven approach to develop models and methodologies for supply chain analysis and decision making. (Formerly 6500:390)

SCM:421 Operations Research (3 Credits)

Prerequisites: Must be admitted to a major in a four-year degree granting college and SCM 330. Examines the use of operations research techniques in managerial decision-making processes; constrained linear optimization, non-linear optimization, network analysis, queuing theory, simulation. (Formerly 6500:421)

SCM:433 Supply Chain Logistics Planning (3 Credits)

Prerequisites: Admission to a major in a 4-year degree granting college and SCM 330. Emphasizes the importance of planning in the development of the domestic and global supply chain logistics system that includes transportation, inventory, warehousing and procurement. (Formerly 6500:433)

SCM:434 Production Planning & Control (3 Credits)

Prerequisites: Must be admitted to a major in a 4-year degree granting college, upper level standing, and SCM 333. Coverage of materials management, production planning, scheduling and control. Integrates material from previous courses, provides overall framework including use of computer and quantitative methods. (Formerly 6500:434)

SCM:435 Quality Management & Control (3 Credits)

Prerequisites: Must be admitted to a major in a 4-year degree granting college, upper level standing, and SCM 330. Emphasis on statistical techniques essential to controlling product quality for both measurement and attribute data. Includes control chart methods and acceptance sampling plans. (Formerly 6500:435)

SCM:475 Supply Chain Operations Strategy (3 Credits)

Prerequisites: Must be admitted to a major in a 4-year degree granting college, MGMT 302, ISM 310, SCM 333, and SCM 390. Pre/Corequisites: SCM 433 and SCM 476. Capstone course integrating supply chain concepts to solve real world supply chain problems primarily using a case study approach. (Formerly 6500:475)

SCM:476 Supply Chain Sourcing (3 Credits)

Prerequisites: Must be admitted to a major in a 4-year degree granting college and SCM 330. Introduces the student to fundamental sourcing concepts as well as the scope of responsibility and critical roles of the sourcing function within the principal organization in a supply chain network. (Formerly 6500:476)

SCM:479 Operations Simulation (1 Credit)

Prerequisites: Must be admitted to a major in a 4-year degree granting college and SCM 333. Simulation of operations management practices through computerized or experiential exercises. (Formerly 6500:479)

SCM:486 Internship in Supply Chain/Ops (3 Credits)

Prerequisite: Permission of department chair or designated faculty member. On the job experiences with public or private sector organizations. (Formerly 6500:486)